112-57-8-16330

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 8, pp 41-42, (USSR)

AUTHOR: Fel'dman, M. P.

TITLE: An Economic Substantiation of the Firm Capacity of a Hydroelectric Station (Ekonomicheskoye obosnovaniye obespechennoy otdachi GES)

PERIODICAL: Tr. Mosk. energ. in-ta (Transactions of the Moscow Power-Engineering Institute), 1956, Nr 19, pp 48-57

ABSTRACT: Firm capacity is the maximum capacity of a hydroelectric station that is fully used in the system as a working power and also as a system reserve. Usually, the hydroelectric station capacity used in the year when it covered 99% of demand (without duplication) is referred to as the minimum firm capacity over many years. In particularly low-water years, the average value (over many years) of the energy deficit would constitute only a few hundredths of 1%. On the other hand, an increase in the rated capacity of a hydroelectric station would bring about an increase in the system expenses for building the reserves and for compensating the deficit in low-water years. The author

Card 1/2

112-57-8-16330

An Economic Substantiation of the Firm Capacity of a Hydroelectric Station points out the possibility of creating a reserve in the form of a regulating consumer. Such consumers could increase their production according to the additional yield over the rated year. The optimum value of firm capacity is determined by the minimum of people's economic expenses for production and consumption of electrical energy. This optimum value depends on the cost of the system reserve, on the degree of regulation of water flow, and on the runoff distribution within one year and over many years. Formulae are derived for determining firm capacities for various system reserves.

A.A.B.

Card 2/2

FELDMAN, M. .

"Economic Grounds for the Availability of Hydro-Electric Station Capacity. report presented at the 14th Sectional Meeting of the World Power Conference, Montreal Canada, 7-12 Sep 1958.

AUTHOR:

Fel'dman, M.P., Doctor of Technical Sciences; Druzhinin, I.P. 98-58-3-11/22 Candidate of Technical Sciences

TITLE:

A Method of Determining the Rated Capacity of Planned Hydroelectric Power Plants (Metodika opredeleniya raschëtnoy obespechennosti moshchnosti proyektiruyemykh ges)

PERIODICAL:

Gidrotekhnicheskoye Stroitel'stvo, 1958, Nr 3, pp 38 - 45(USSR)

ABSTRACT:

Several publications on methods of determining the guaranteed capacity of hydroelectric power plants have come out in the past years. This article suggests a simple method and norms worked out and tried experimentally in the Sektsiya vodokhozyaystvennykh problem AN SSSR (Section of Water-Engineering Problems of the AS USSR, the Institut energetiki AN Kazakhskoy SSR (Institut of Energetics of the AS Kazakh SSR) and the Vodoenergeticheskiy institut AN Armyanskoy SSR (Water-Power Institute of the AS Armenian SSR. There are 5 graphs, 2 tables, and 10 Soviet references.

Card 1/1

1. Electric power production-USSR 2. Power plants-Design

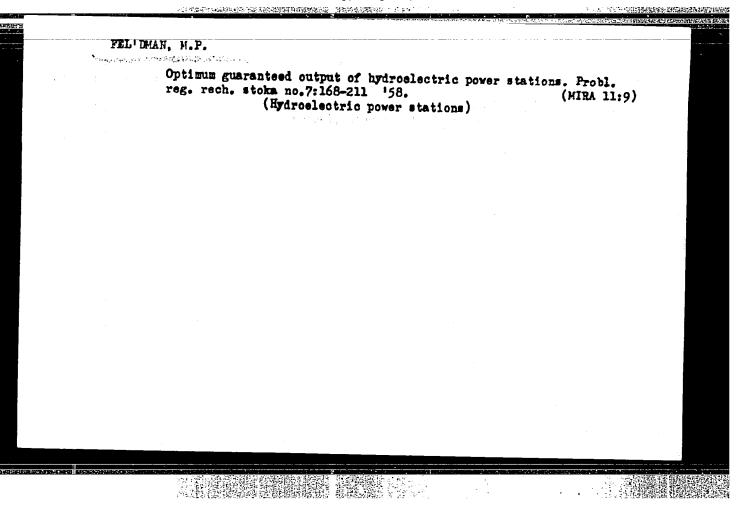
"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000412820

FEL'DMAN, M.P.; MASTITSKIY, N.V. [deceased]; DRUZHININ, I.P.

Effect of natural and technical factors on the guaranteed output of hydroelectric power stations. Probl. reg. rech. stoka no.7:32-81 '58.

(Hydroelectric power stations)

(MIRA 11:9)



FEL'DMAN, M.P.; DRUZHININ, I.P.; VELIKANOV, A.L.

Determining the rated capacity predictability of hydroelectric power stations on the basis of flow data of the Oka and Yenisey Rivers. Probl.reg.rech.stoka no.8:105-188 159.

(MIRA 13:4)

(Hydroelectric power stations)

HARESERSON OF THE STATE OF THE

8(6)

SOV/98-59-9-7/29

AUTHOR:

Beschinskiy, A.A., Engineer, and Fel'dman, M.P., Doctor of Technical Sciences

TITLE:

Increase of Water Power Economy Effect

PERIODICAL:

Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 9,

pp 20-27 (USSR)

ABSTRACT:

Specific amounts invested per installed kw for construction of hydropower plants in USSR during the 7-10 years were too high in comparison with those invested for thermal power plants during the same period. The authors recommend measures which could cut costs of hydropower plants (by using water for other watereconomy purposes more extensively). The measures have also been studied by the Energeticheskiy institut AN SSSR (Power Institute of the USSR Academy of Sciences) and by the "Gidroenergoproyekt". They explain these low costs of thermal power plants by their fast de-

Card 1/2

velopment (improved equipment and large generating

SOV/98-59-9-7/29

Increase of Water Power Economy Effect

units, both of which increased efficiency) and by the development of stoking methods which made possible the use of cheap coals and petroleum refinery residuals as fuels. Table 2 shows economic indexes i.e. specific investments for some Soviet hydropower plants. There are 4 tables and 1 graph.

Card 2/2

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128200

15~15日中国的政治在2007年的建立网络1000000000 新统备的基础设计。在2017日间

FEL'DMAN, M.P., otv.red.; OKHRIN, N.V., red.izd-va; GUS'KOVA, O.M., tekhn.red.

[Problems in hydroelectric power production and streamflow regulation] Problemy gidroenergetiki i regulirovaniia rechnogo stoka. Moskva, 1960. 193 p. (MIRA 14:2)

1. Akademiya nauk SSSR. Emergeticheskiy institut. (Hydroelectric power stations)

:

TORGONYAH, M.S., kand. tekhn. nauk; CHILINGARYAN, L.A., kand. tekhn. nauk; SHAKHBAZYAN, Sh.A., kand. tekhn. nauk; AGAKHANYAN, G.A., kand. sel'khoz. nauk; KULOYAN, L.T., kand. tekhn. nauk; ARSHAKYAN, D.T.; BARKHUDARYAN, I.G.; SARKISYAN, S.G., kand. tekhn. nauk; MKHITARYAN, S.A.; OSEIYAN, A.M., doktor ekon. nauk, prof.; BEK-MARMARCHEV, B.I., kand. geogr. nauk, red.; AYVAZ'YAN, V.G., otv. red.; FEL'DMAN, M.P., otv. red.; AVETISYAN, A.A., tekhn. red.; CHAKHAIYAN, TS.P., tekhn. red.

[Results of the combined studies of the Sevan problem]Rezul'taty kompleksnykh issledovanii po Sevanskoi probleme. Erevan, Izd-vo Akad. nauk Armianskoi SSR. Vol.3.[Water resources and power engineering]Vodnoe khoziaistvo i energetika. 1962. 330 p.

1. Akademiya nauk Armyanskoy SSR, Erivan. (MIRA 15:11) problem.

(Sevan Lake region-Water resources development)
(Sevan Lake region-Power engineering)

FRIIDMAN, M. P., dektor tekhn. nauk

Roonomically justified hydroelectric power construction at a new stage. Gidr. stroi. 33 no.12:22-25 D *62.
(MIRA 16:1)

(Hydreelectric power stations)

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412820

Secretality, A.A.: For them, N.T.

Methodology for determining the effectiveness of a water resource development and the distribution of expenditures between its components. Probl. gidrosnerg. 1 reg. rech. stoka no.31:3-44 (MIRA18:3)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128200

AYVAZ'YAN, V.G., prof.; VELIKANOV, A.L., kand. tekhn. nauk; KOROBOVA, D.N., mlad. nauchn. sotr.; FEL'EMAN, M.P., doktor tekhn. nauk; VASIL'YEV, Yu.F., red.

1977年中海阳湖下海海至安广常湖南湖湖路路。 网络雪鸡南湖 (2017)

[Selection of power parameters and structural dimensions of hydroelectric power stations] Vybor energeticheskikh parametrov i razmerov scoruzhenii gidroelektrostantsii. Moskva, Nauka, 1965. 135 p. (MIRA 18:4)

1. Moscow. Energeticheskiy institut.

FEL'DMAN, M.P.; SAVINYKH, Ye.N.

Machine for cutting off billets with a diameter up to 52 mm.

Mashinostroenie no.1:101 Ja-F '62.

(Cutting machines)

(Cutting machines)

FEL'IMAN, M.P.; SAVINYKH, Ye.N.

Device for milling wooden wedges. Mashinostroenie no.1:101-102

Ja-F'62. (MIRA 15:2)

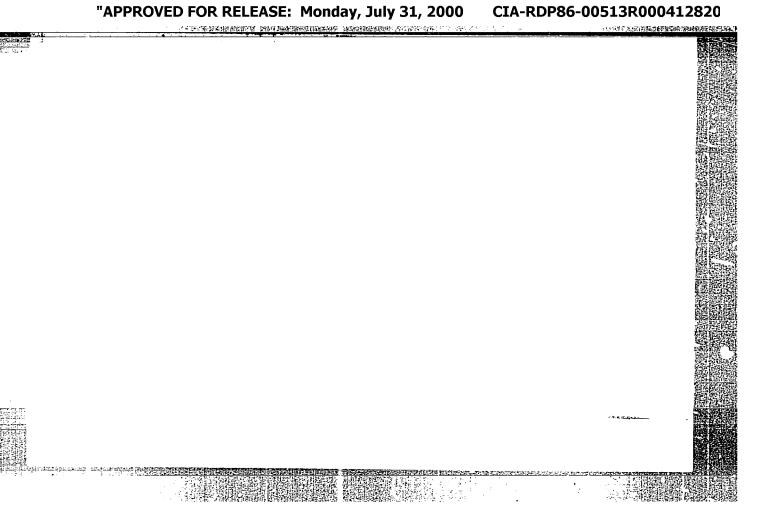
(Woodworking machinery)

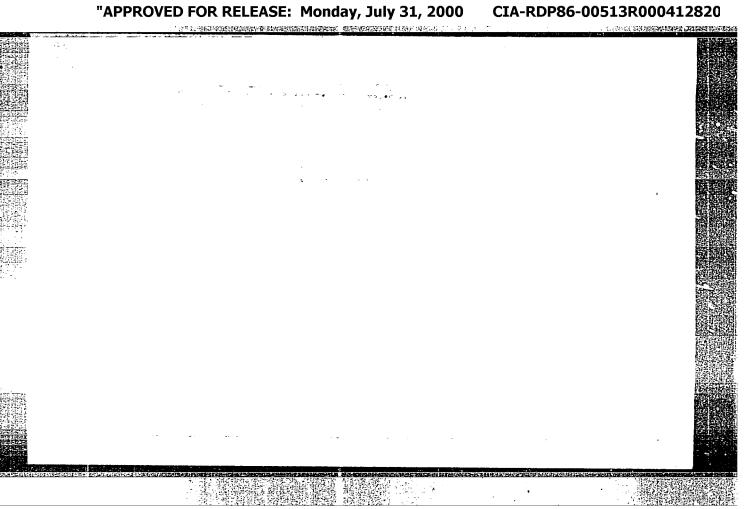
CARLOR CONTROL SERVICE SERVICE

FELIDMAN, M.P.; SAVINYKH, Ye.N.

Machine for milling two flats on fixture parts. Mashinostroenie no.1:102 Ja-F '62. (MIRA 15:2)

(Milling machines)





FEL! DMAN, M.R.

Calculating elastic plates. Nop. AN URSR no.5: 451-457 155. (MIRA 9:3)

1. Dnipropetrovs'kiy inshenerno-budivl'niy institut. Predstaviv diysniy chlen AN URSE G.M. Savin.
(Elastic plates and shells)

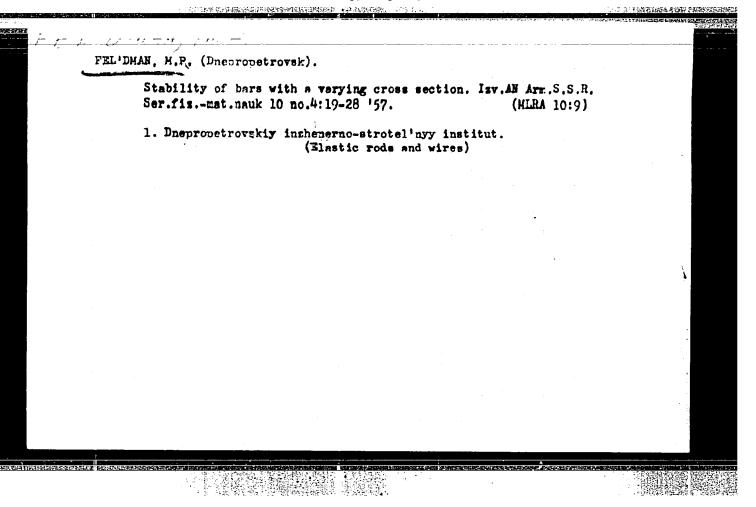
APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128200

FEL'DMAN, M.R.

Longitudinal bending of bars taking into consideration plastic aftereffect. Izv.AH Arm.SSR.Ser.FMHT nauk 9 no.1:75-86 '56.

(MLRA 9:8)

1. Dnepropetrovskiy inshenerno-stroitel'nyy institut. (Deformations (Mechanics))



FEL'DMAN, M.R. (Unipropetrys'k).

Torsional vibrations of bevel shafts [in Ukrainian with summary in Russian]. Prykl. mekh. 4 no.1:105-111 '58. (MIRA 11:4)

1. Unipropetrovs'kiy inshenerno-budivel'niy institut. (Shafting—Vibration)

16(1)

AUTHOR:

Fel'dman, M.R.

307/22-12-3-2/9

TITLE:

On a Difference Method for the Investigation of the Stability

and Oscillations of Plates

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR. Seriya fizikomatematicheskikh nauk, 1959, Vol 12, Nr 3, pp 15-28 (USSR)

ABSTRACT:

In the domain H let be given the differential equation

(1)
$$K[w] = L[w] - \lambda N[w] - f = 0$$
,

where L[w] and N[w] are linear homogeneous differential operators the principal parts of which have the form

$$\sum_{\overline{C} \in \mathbb{Z}} C_{\overline{C}_1, \dots, \overline{C}_n} \frac{\sigma^{\overline{C}_n}(x_1, x_2, \dots, x_n)}{\sigma^{\overline{C}_n}} \text{ and } \sum_{\overline{C} \in \mathbb{Z}} \underline{M}_{\overline{C}_1, \dots, \overline{C}_n} \frac{\sigma^{\overline{C}_n}(x_1, \dots, x_n)}{\sigma^{\overline{C}_n}}$$

respectively, $T = T_1 + T_2 + ... + T_n$ and C,M,f are given functions of the $x_1, ..., x_n$; m>1. Let the boundary condition be

$$\sum_{\zeta < m-1}^{n} E_{\zeta_{1}}, \ldots, \zeta_{n} \frac{\partial^{\zeta_{w}}}{\partial x_{1}^{1} \ldots \partial x_{n}^{n}} = 0,$$

Card 1/3

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R0004128200

On a Difference Method for the Investigation of the SOV/22-12-3-2/9 Stability and Oscillations of Plates

> where the E are known. For the determination of the unknown function w the author covers the domain H with a rectangular net with the node $Q_j(x_{1j},x_{2j},...,x_{nj})$, j=1,2,...,N and approximates (1) by the system of linear algebraic equations

(2)
$$\sum_{z=-q}^{q} \left[s_{i,y+z}(x_{i,j}) w_{i,j+z}(x_{i,j}) - \lambda R_{ij}(x_{i,j}) w_{i,j}(x_{i,j}) \right] = f_{i,j}(x_{i,j}).$$
Now the solution is sought in the form

$$w(x_{i,j}) = \sum_{k,t,...,r} \psi_{1k}(x_{1j}) \psi_{2t}(x_{2j}) ... \psi_{nr}(x_{nj}).$$

The postulate that (1) vanishes identically for the given boundary conditions is replaced by the weaker postulate that $\mathbb{K}[w(x_{i,j})]$ is orthogonal to all functions $\psi_{i,\nu}(x_{i,j})$. These assumptions lead to a system of equations from which \(\lambda\) can be determined in the homogeneous case and the A can be determined in the inhomogeneous case. The method converges in all cases where the method of Bubnov-Galerkin is convergent. The author uses the method for the investigation of the stability and

Card 2/3

On a Difference Method for the Investigation of the SOV/22-12-3-2/9 Stability and Oscillations of Plates

oscillations of a quadratic plate which is supported freely and which is charged in its plane along the boundary by uniformly distributed forces acting normally to the boundary, and for the examination of the stability of a plate of variable thickness for a compressive load by steps. The deviation from the rigorous solution amounts 2%. An example is calculated.

There are 6 figures, 1 table, and 12 Soviet references.

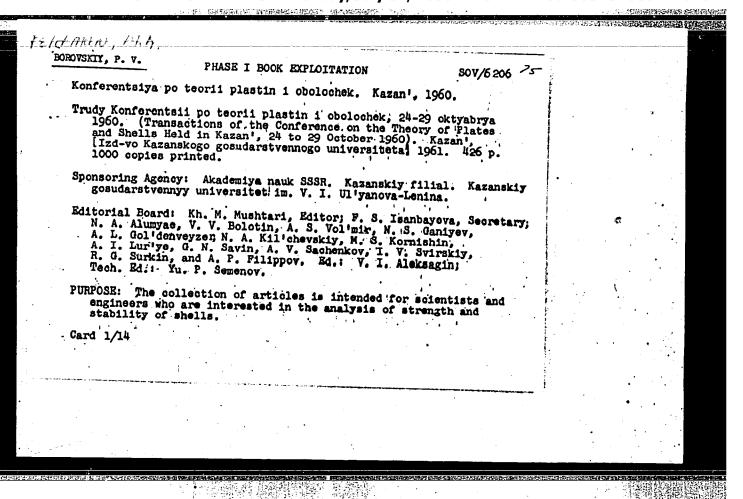
ASSOCIATION: Dnepropetrovskiy inzhenerno-stroitel'nyy institut (Dnepropetrovsk Institute of Civil Engineering)

SUBMITTED: May 26, 1958

Card 3/3

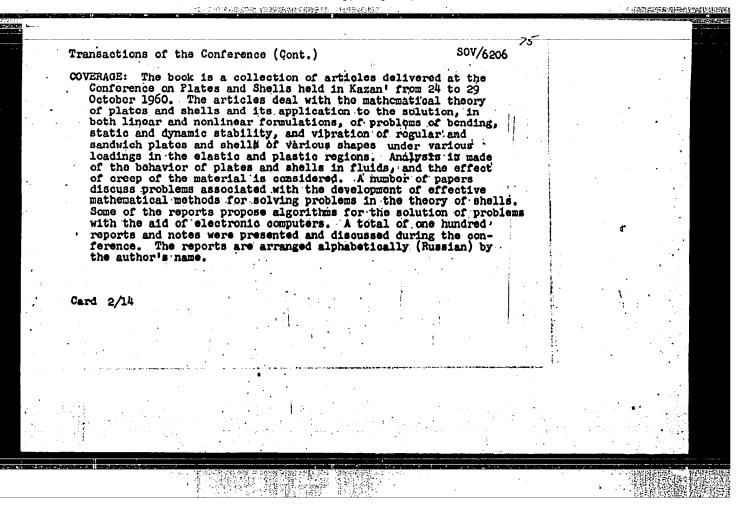
FEL DHAN, M.R., dotsent, kand.fiz.-matem.nauk (Dnepropetrovsk)

Theory of bending of rectangular plates with large deflections. Issl. po teor. sooruah, no. 9:173-190 '60. (MIRA 14:1) (Elastic plates and shells)



"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412820



"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000412820

。 1864年中國中國中國中國中國中國中國中國中國中國中國中國中國中國中國中國中國中國中國	一名明·西尔可奇特里奇(特别),但可是
Transactions of the Conference (Cont.)	SOV/6206 /
Fel'dman, M. R. Vibration of an Anisotropic Plate Making Allowance for the Rheological Properties of the Material	382
Filin, A. P. Analysis of Arbitrarily Shaped Shells Based on a Discrete Design Scheme	388
Fleyshman, N. P. Analysis of Plates With Curvilinear Stiffeners	399
Frolov, O. A. Stress Combentration in a Cylindrical Shell Weakened by a Cutout	408
Shveyko, Yu. Yu. Flutter of a Circular Cylindrical Shell	414
List of Reports Not Included in the Present Collection	419
Card 13/14	
	weight being the control of the cont

167300

5/020/61/137/005/012/026 B104/B214

10.9110

AUTHOR:

Fel'dman, M. R.

TITLE:

The stability of orthotropic plates with step like change

in rigidity

PERIODICAL:

Doklady Akademii nauk SSSR, v. 137, no. 5, 1961, 1086-1089

TEXT: Oscillations of orthotropic rectangular plates are studied, the plates showing a step like variation of the rigidity. The plates are assumed to be under the action of a force of compression T in the direction of the length. The problem is solved with the help of finite differences and the method of Bubnov-Galerkin. By means of a rectangular lattice each side of the plate is divided into n equal parts with lattice constant $\xi = a/n$. The divergence u_0 of the plate satisfies in each part of the lattice the difference equation:

Card 1/6

21969

The stability of orthotropic ...

S/020/61/137/005/012/026 B104/B214

$$2(3+3k_{2}+4k_{3})u_{0}-4(k_{2}+k_{3})(u_{2}+u_{4})-4(1+k_{3})(u_{1}+u_{3})+ +2k_{3}(u_{3}+u_{6}+u_{7}+u_{8})+k_{2}(u_{11}+u_{12})+u_{9}+u_{10} = = \lambda \frac{P_{v}}{R_{v}}(2u_{0}-u_{1}-u_{2})+Fu_{0},$$
(1)

Here, $P_{\nu} = (T_0 + T_1 + \cdots + T_{\nu})/T_0$, $T = \sum_{\nu} T_{\nu}$, ν is the number of parts of the plate, $R_{\nu} = D_{\nu}/D_0$; $\Lambda = a^2 T_0/D_0 n^2$; $F = \rho p^2 a^4/D_0 n^4$; $k_2 = D_2/D_0$; $k_3 = D_{\nu}/D_0$; $D_0 = E_0 h^3/12(1 - \mu_1 \mu_2)$ is the cylindrical rigidity of the first part along ox, D_{γ} the same for the γ -th part, $D_2 = E_2 h^3/12(1 - \mu_1 \mu_2)$; $D_3 = D_0 \mu_2 + 2D_k$; $D_k = Gh^3/12$; p is the frequency of oscillations, and ρ the mass of the plate per unit area. A formula is obtained for the relation between the frequencies p of the characteristic oscillations and Card 2/6

s/020/61/137/005/012/026 B104/B214 The stability of orthotropic ... the compression T acting along the length of the plate at & = 0, = 0.5, and ξ = 1: $\rho^2 = \frac{9.65 (R_1 + P_1)}{\rho a^2 (R_1 + 1)} \left[\frac{19.34 (1 + k_1 + 2k_2) D_1}{a^2 (R_1 + P_1)} - T \right].$ (3). From this equation the frequency of the oscillations can be found if the magnitude of the force of compression is known. The fundamental frequency of the characteristic oscillations, is found for T = 0. critical load is written in the form: Here, ared = aa the reduced side of the plate, α is a coefficient depending on the manner of loading and the boundary conditions of the plate. Thus, the problem is reduced to finding the α values for different ratios between $i_{\mathcal{V}}$ and R, (Fig. 2). The principle of Volterra-Rabotnov (Ref. 3: Yu. N. Rabotnov, Prikl. matem. i mekh., 12, v. 1, (1948)) is used for taking into account Card 3/6

ᠸᡠᡫᠴ

S/020/61/137/005/012/026 B104/B214

The stability of orthotropic ...

the effect of rheologic material properties on the critical forces of orthotropic plates, and with the help of integral operators the following approximate formula is derived for the critical forces:

$$T_{\rm KP}(t) \approx T_{\rm KP}(0) \left\{ 1 - \sum_{l=1}^{8} \frac{a_l}{\beta_l} \left[1 - \exp(\gamma_1 \beta_l t)^{1-\alpha} \right] \right\}.$$
 (12).

Here, $T_{\rm kp} = T_{\rm cr}$, $a_1 = E_{10}^{\rm h\delta} 1(1 + 2\mu_2)/T$; $a_2 = E_{20}^{\rm h\delta} 2/T$; $a_3 = 4G_{\rm o}^{\rm h}^{\rm J}\delta_3(1 - \mu_1\mu_2)/T$; $\beta_1 = \delta_1\tau_1^{-1}$, τ_1 are the relaxation times, $\delta_1 = (E_{10} - E_{10})/E_{10}$; $\delta_2 = (E_{20} - E_{20})/E_{20}$; $\delta_3 = (G_{\rm o} - G_{\infty})/G_{\rm o}$; $\gamma_1 = (1 - \alpha)^{1-\alpha}$; E_{10} , E_{20} , and $G_{\rm o}$ are the instantaneous moduli of elasticity and shear. N. Kh. Arutyunyan, M. I. Rozovskiy, A. Yu. Ishlinskiy and A. R. Rzhanitsyn are mentioned. There are 2 figures and 7 Soviet-bloc references.

Card 4/6

S/879/62/000/000/037/088 D234/D308

AUTHOR: Fel'dman, M. R. (Dnepropetrovsk)

TITLE: Dynamical stability of orthotropic plates

SOURCE: Teoriya plastin i obolochek; trudy II Vsesoyuznoy konfe-

rentsii, L'vov, 15-21 sentyabrya 1961 g. Kiev, Izd-vo AN USSR, 1962, 244-248

TEXT: Using a combination of the difference method with the Bubnov-Galerkin method, the author derives the equation

$$\frac{d^2T(t)}{dt^2} + \omega_k^2 \left[1 + \frac{N + N_t \cos \theta t}{N_k} \right] T(t) = 0$$

or

$$\frac{\mathrm{d}^2 \mathrm{T}(t)}{\mathrm{d}t^2} + \Omega_k^2 \left[1 + \frac{\mathrm{N}_t \cos \theta t}{\mathrm{N}_k + \mathrm{N}} \right] \mathrm{T}(t) = 0$$
 (13)

Card 1/2

Dynamical stability of ...

S/879/62/000/000/037/088 D234/D308

for a rectangular plate and quotes the equations of dynamical stability obtained by him for 1) a square plate freely supported and compressed in two directions perpendicular to each other, 2) a square plate with step-wise varying rigidity, uniformly compressed in one direction. For the first case he indicates the most dangerous domain of instability, as well as the minimum values of critical static force and minimum natural frequency when the plate is isotropic. The frequency is

$$\omega_1 = \frac{19.73}{a^2} \sqrt{\frac{\overline{D}}{m}} \tag{16}$$

There are 2 figures.

Card 2/2

GLAVINSKIY, David Germenovich; DENSHCHIKOV, Mikhail Tikhonovich;
PIGUZOV, A.T., insh., retsenzent; FEL'IMAN, M.S., inzh.,
retsenzent; POPOV, V.I., prof., spets. red.; KOVALEVSKAYA,
J.I., red.; SOKOLOVA, I.A., tekhn. red.

[Mechanizatian a automatizatsiia pivovarennogo proizvodstva.
khanizatsiia i avtomatizatsiia pivovarennogo proizvodstva.
Moskva, Izd-vo "Pishchevaia promyshlennost'," 1964. 419 p.

(MIRA 17:4)

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412820

ACCESSION MR: APSO17800

631.859.12.002.2

AUTHOR: Karatayav, I. I.; Mel'nik, B. D.; Repenkows, T. G.; Sviridova, A. G.; Doktorov, N. L.; Mazarov, G. N. Reygorodakiy, I. N.; Vasii'yav, B. T.; Bystrov, N. V.; Babaryka, I. F.; Kuzyak, F. A.; Fel'dman, N. V.; Soverchenko, D. A.; Bulakova, L. P.; Toropteava, N. P.; Lyubimov, S. V.; Ulyanov, A. T.; Andres, V. V.; Sobchuk, Yu. I.; Tsetlina, N. M.; Andreyev, V. V.; Kramer, G. L.

TITLE: A method for producing phosphoro-potassium fertilizers. Class 16, No. 171-403

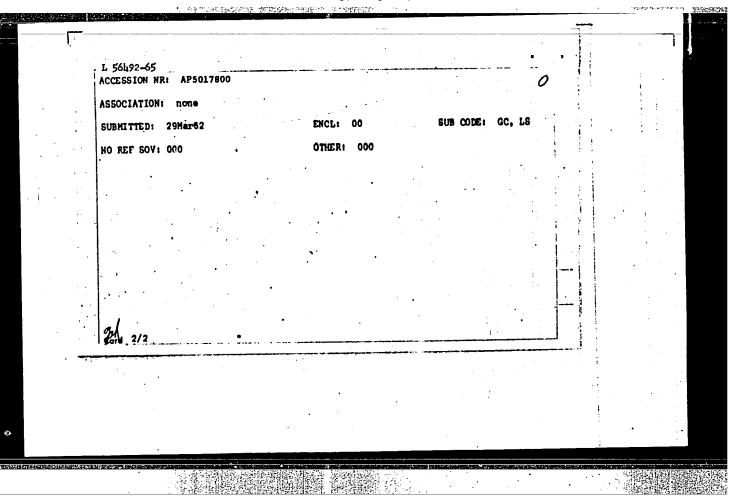
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 11, 1965, 31

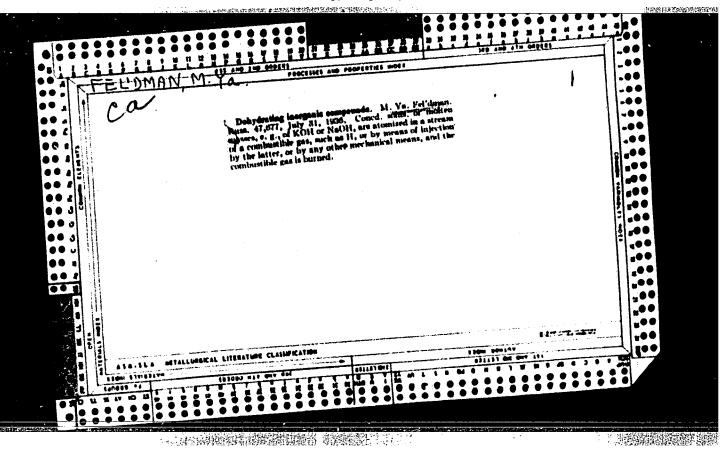
TOPIC TAGS: fertilizer, phosphate, potassium

ABSTRACT: This Author's Certificate introduces a method for producing phosphoro-potassium fertilizers using cement dust (waste from cement production) as the potasium ray maturial. The process of adding potassium to the product is simplified and evaporation is prevented by using a 20% excess of an acid which directly neutralizes the cement dust for breaking down the phosphate ray material.

Cord 1/2

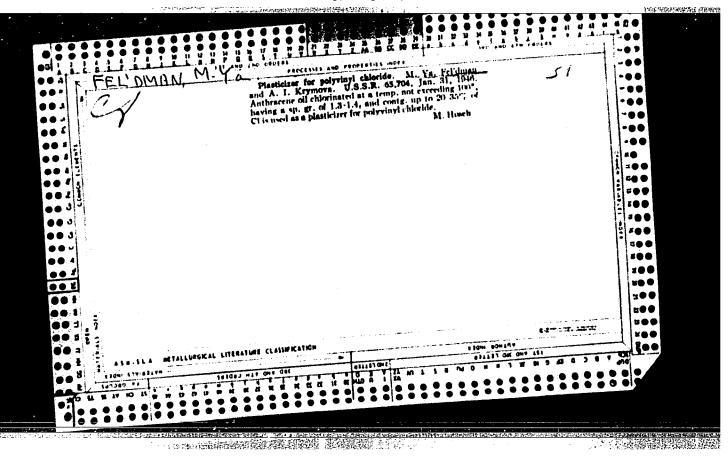
"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000412820

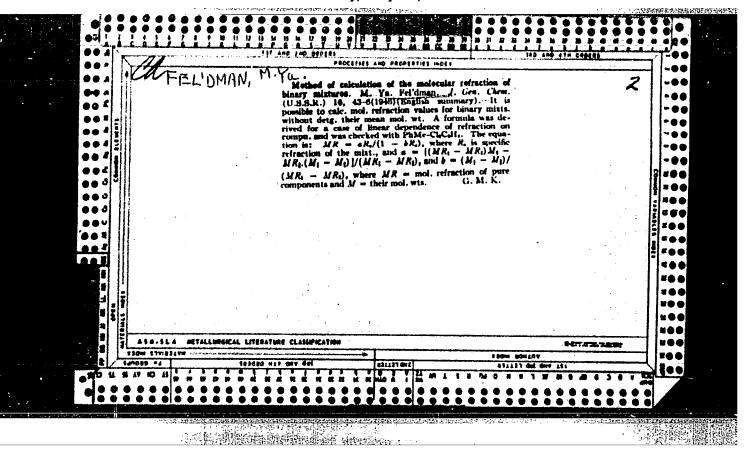




"APPROVED FOR RELEASE: Monday, July 31, 2000 CI/

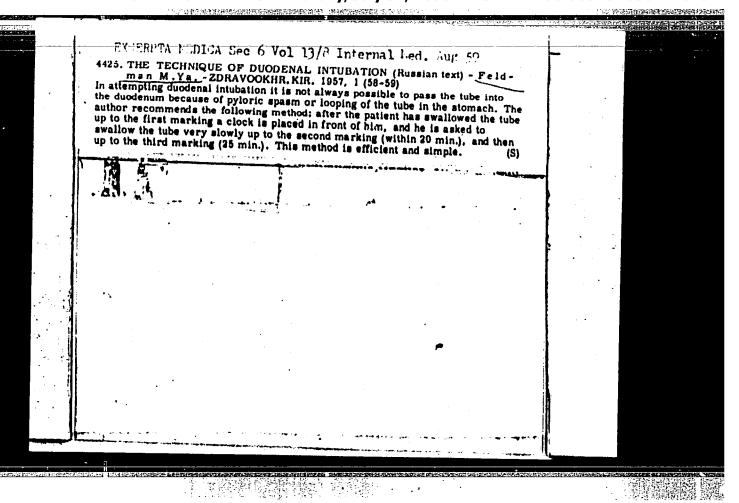
CIA-RDP86-00513R000412820





"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412820



FEL'DMAN, M.Ya.

Method for determining protein and nonprotein nitrogen in the blood in Convay dishes modified by S.R. Mardashev and N.N. Lestrova. Lab. delo 3 no.4:53-54 J1-Ag 157. (MLRA 10:8)

1. Iz laboratorii Bazar-Kurganakoy rayonnoy bol'nitay (glavnyy vrach V.V.Ryabova)
(BLOOD--ANALYSIS) (IABORATORIES--EQUIPMENT AND SUPPLIES)
(NITROGEN)

Method of determining free formaldehyde in the presence of amino acid - formaldehyde and protein - formaldehyde compounds [with summary in Egnlish]. Biokhimia 23 no.65917-923 M-D '58 (MER 11:12) 1. Biokhimicheskaya laboratoriya Nauchno-issledovatel'skogo instituta preparatov protiv polionielita, Moskva. (FORMALDEHYDE)

FEL 'DMAN, M, Ya.

Chemical control of inactivated vaccine against poliomyelitis. Vop. virus. 4 no.6:689-692 N-D 159. (MIRA 13:3)

1. Biokhimicheskaya laboratoriya Moskovskogo nauchno-issledovatel'skogo instituta perparatov protiv poliomiyelita. (POLIOMYELITIS immunol.) (VACCINES)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128200

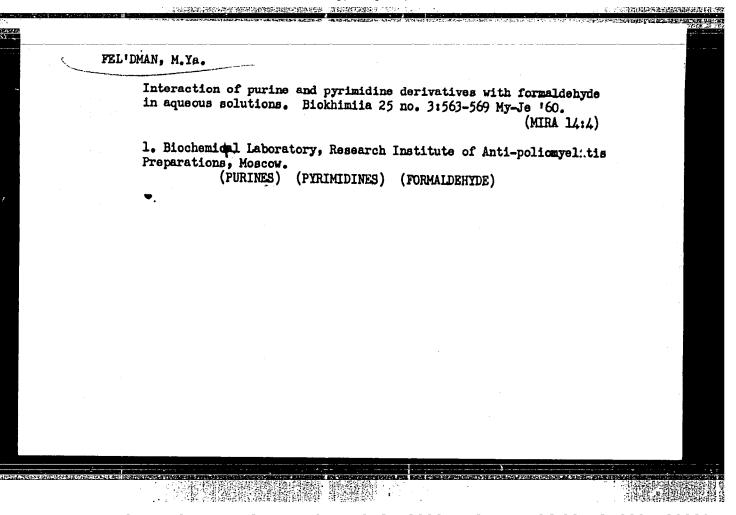
FEL DMAN, M.Ya.

Studies on free fromaldehyde quantities during the inactivation of poliomyelitis virus with formaline. Biul.eksp.biol.i med. 47 no.8: 85-87 Ag '59. (MIRA 12:11)

1. Iz biokhimicheskoy laboratorii (sav. - kand.biolog.nauk N.Y. Kholchev) Moskovskogo nauchno-issledovatel'skogo instituts preparatov protiv poliomiyelita (nauchnyy rukovoditel' - prof. V.D. Solov'yev). Predstavlena deystvitel'nym chlenom AMN SSSR A.Ye. Braunshteynom.

(FORMALDEHYDE)

(POLIOMYELITIS VIRUSES)



Spectrophotometric study of the reaction of ribonucleic acid with formaldehyde. Biokhimita 25 no.5:937-940 S-0 '60. (MIRA 14:1) 1. Biochemical Laboratory, Research Institute of Viral Preparations, Moscow. (NUCLEIC ACIDS) (FORMALDEHYDE)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128200

FELDMAN, M. Ya.

"A Study of the Reaction of Nucleic Atids with Formaldehyde."

report submitted for the 5th Intl. Congress of Biochemistry, Mosoow, 10-16 August 1961

Inst. of Viral Preparations, Moscow.

FEL'DMAN, M.Ya. Condensation of 6-aminouracils with formaldehyde. Biokhimiia 26 no.5 S-0'61. (MIRA 14:12) 1. Biochemical Laboratory, Research Institute of Viral Preparations, Moscow. (FORMALDEHYDE) (URACIL)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128200

以可能是我们阿米拉斯的现在分别的基础度是是一种可以在的效式。2005年5

A COMPOSITION OF STREET

FEL'DMAN, M.Ya.

Condensation of adenine and adenosine with formaldehyde. Biokhimiia 27 no.2:378-384 Mr-Ap '62. (MIRA 15:8)

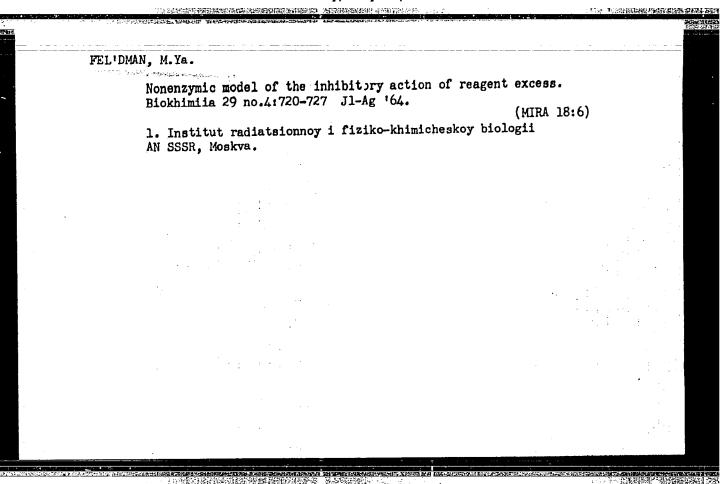
1. Laboratory of Biochemistry of Viruses, Institute of Radiation and Physico-Chemical Biology, Academy of Sciences of the U.S.S.R., Moscow.

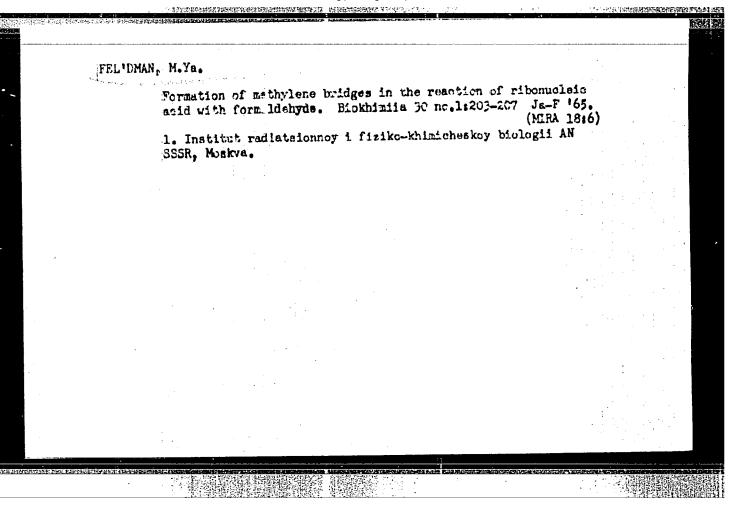
(ADENINE) (CONDENSATION PRODUCTS (CHEMISTRY) (FORMALDEHYDE)

FEL DMAN, M. Ya.

Chemical fundamentals in the preparation of viral formalinized vaccines. Vop. med. Khim. 9 no. 3:232-239 My-Je '63. (MIRA 17:9)

1. Laboratoriya biokhimii virusov Instituta radiatsionnoy i fiziko-khimicheskoy biologli AN SSW., Moskva.





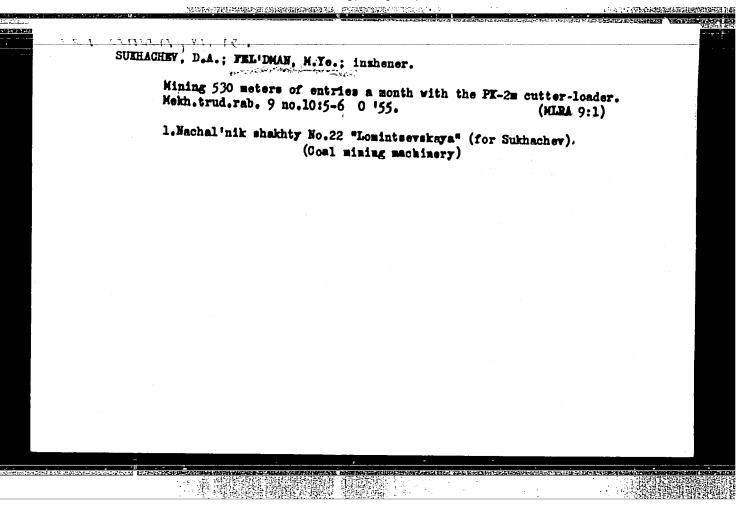
"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412820

Provider, S.A.: FRICING, N.B.: Honorometa, Ya. v.

Study on the solid actuations of (Phys. 100,3 v.) 200 a. Law. AN MICH. Ser. (Law. 2) no. 1120040-1051. N. P.S. (MIRI 1201)

L. Veeloymany much bearing the last the last the laboration of abolitave 1 esobs chiefyth balet beaking contained.



SUKHACHEV, D.A.; FEL'DMAN, M.Ye., inzhener.

Sinking 902 meters of preparatory shafts a month with the PK-2m combine. Mekh. trud. rab. 10 no.8:10-11 Ag '56. (MLRA 9:10)

1. Nachal'nik shakhty no. 22 "Lomintsevskaya." (for Sukhachev). (Coal mining machinery)

FEL'IMAN, M.Ye., insh.; REIZIN, B.S., insh.

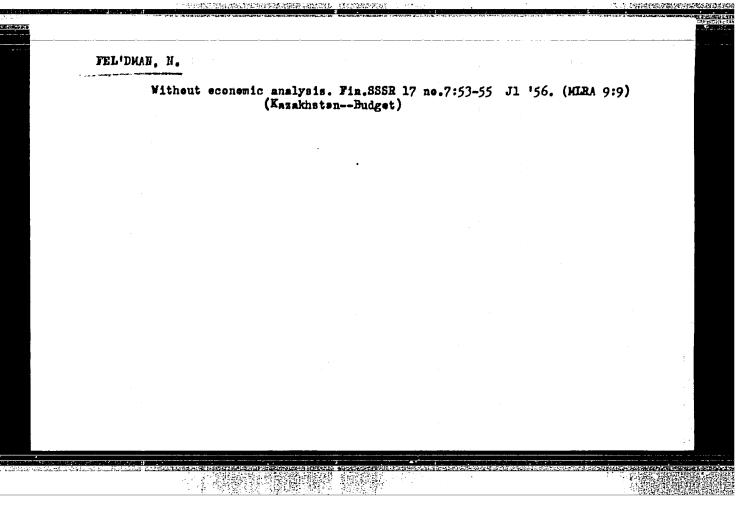
One thousand three hundred and four meters of driftage in one month. Shakht.stroi. no,10:21-23 0 '57. (MIRA 10:12) (Mining engineering)

FEL'DMAN, M.Ye., insh.

Mechanization and automation of dump car cleaning to control the freezing of ore and rock. Izv. vys. uch. zav.; gor. zhur. 5 no.6:150-155 '62. (MIRA 15:9)

1. Gosudarstvennyy institut po proyektiorvaniyu gornykh predpriyatiy shelesorudnoy i margantsevoy promyshlennosti i promyshlennosti nemetallicheskikh iskopayemykh. Rekomendovana kafedroy avtomatisatsii proisvodstvennykh protessov Sverdlovskogo gornogo instituta imeni Vakhrusheva.

(Mine railroads—Cars) (Automatic control)



FEL DEAL H

Serious shortcomings. Visnyk AN URSR 28 no.3:52-54 Mr 157. (MLRA 10:5)

1.Zamestitel' nachal'nika kontrol'no-revizionnogo upravleniya Ministerstva finansov Kasakhskoy SSR.

(Kasakhstan--Budget)

VILCU, St. M., Academician; FELDMAN, N.; WOLFSHAUT, C.

Polyalgias of asthenic neurosis or neurotic pseudo-rheumatism.

Probl. reumat., Bucur. 4:21-26 1956.

(NEURASTHEMIA, complications polyalgias, pseudo-rheum.)

(RHEUMATISM pseudo-rheum., neurotic, causing polyalgias)

(PAIN, etiol. & pathogen. polyalgia caused by neurasthenia)

MILCU, St., M., Acad.; FELDMAN, N., dr.; DAMIAN, Flena, chimista

Urinary elimination of 17-ketosteroids in arthrosis and spondylosis after Herculane sulphurous thermal therapy.

Med. int., Bucur. 9 no.1:27-36 Jan 57.

1. In colaborare cu Institutul de balneologie, Sectia clinica de reumatologie, colectivul dr. I. Stoia.

(SPOEDYLOSIS, therapy
balneother., thermal, sulphurous, eff. on 17-ketosteroids in urine)

(ARTHRITIS, RESUMANOID; therapy
(SAME)

(BALNEOLOGY
thermal sulphurous ther. of spondylosis & rheum.
arthritis)

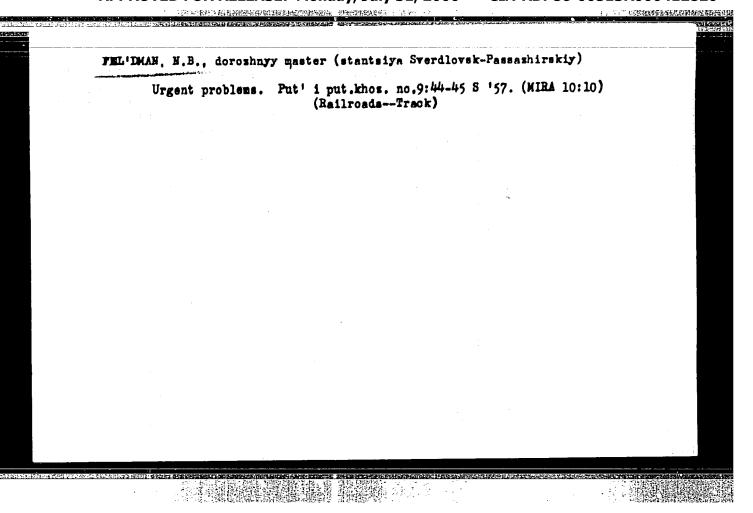
```
Intradermo-paravertebral placenta therapy. Bul. stiint., sect. med. 8 no.3:829-839 July-Sept 56.

1. Commicare presentata in Sesiunea generala stiintifica a Academiei R.P.R., in eedimta din 30 iunie 1955.

(FLACENTA. extracts
ther. of spinel, arthritic & other dis.)

(SPINS, diseases
ther., placental extract, admin.)

(JOINTS, diseases
ther., placenta extract, intradermo-paravertebral admin.)
```



EWP(e)/EPA(s)-2/EWT(m)/EWP(1)/EPA(w)-2/EWP(t)/EWP(b)/EWA(h) 28118 IJP(c) JD/WH SOURCE CODE: UR/0048/65/029/011/2050/2054 L 7835-66 ACC NR: APSO28118 IJP(c) AUTHOR: Fedulov, S.A.; Fel'dman, N.B. ORG: All-Union Scientific Research Institute of Chemical Reagents and High Purity Chemicals (Vsesoyuznyy nauchno-issledovatel skly institut khimicheskikh reakitvov i osobo chistykh khimicheskikh veshchestv) Investigation of lead "titanate" - lanthanum titanate solid solutions (Report, Fourth All-Union Conference on Ferro-electricity held at Rostov-on-the Don 12-16 September 19647 SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 11, 1965, 2050-2054 TOPIC TAGS: ferroelectric material, piezoelectric ceramic, solid solution, lead, lanthanum, titanate, dielectric constant, dielectric loss, Curie point, lattice parameter, electric polarization, piezoelectric modulus ABSTRACT: The ferroelectric and piezoelectric properties of (1 - x)PbTiO3 + + $xLa_{2/3}TiO_3$ solid solutions were investigated. The specimens were synthesized from the oxides by a special ceramic technique described in an Inventor's Certificate by I.A.Grozman, L.Z.Rusakov, and N.B.Fel'dman (Avtor. svid. No. 135394 ot 25 marta 1960) and involving 2-hour rosstings at 910 and 1180-1270°C. X-ray studies showed that solid solutions were formed for values of x up to 0.5 and above. The volume of the unit cell decreased with increasing x; from this it is concluded that the trivalent

HER THREE SEASON PROPERTY OF THE SEASON PROPERTY OF THE

L 7835-66

ACC NR: AP5028118

O

lanthanum ions replace the divalent lead rather than the tetravavelent titanium ions. The dielectric constant and electric conductivity were measured at different temperatures, dielectric hysteresis loops were observed, and the piezoelectric properties were investigated by the resonance method. The solid solutions showed both ferroelectric and piezoelectric properties. The Curie temperature decreased with increasing x from approximately 500° C for x = 0 to 0° C for x = 0.5; this decrease of the Curie temperature is ascribed to the fact that the trivalent lanthanum ions are considerably less polarizable than the divalent lead ions that they replace. The radial electromechanical coupling constants of polarized specimens ranged between 0.1 and 0.2, the piezoelectric activity increasing with increasing x. The electric conductivities of the solid solutions were in general less than that of pure lead titanate. By extrapolating hysteresis loop measurements to x = 0, values of 4 kV/cm and 50 µC/cm2 were found for the coercive field and spontaneous polarization of lead titanate. This value of the polarization is in good agreement with the finding of G.Shirane and S.Hochino (proc. Inst. Rad. Engrs., 43, No. 12, 1738 (1955)), but the value 90-100 µC/cm² calculated from the latent heat of the phase transformation is believed to be more nearly correct. The discrepancy is ascribed to the use of coranic specimens rather than single crystals. It is concluded that the investigated materials will find practical application, owing to their rather high Curie points and their appreciable piezoelectric activities. Orig. art. has: 6 figures.

SUB CODE: SS EM ME

SUBM DATE: 00/

ORIG. REF: 007

OTH REF: 005

Card 2/2 5/10

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R0004128200

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412820

ACC NR. AP6009839		SOURCE CODE:	UK/U413/06/U	100/004/0032/0	.033
INVENTOR: Fel'dme	n, N. B.; Filimonchev	a, K. I.		13	
ORG: none .:	3		4	NAMES 13	פו
TITLE: Increasing	the piezoactivity of	ceramic piezoele	ments. Class	21, No. 178	3864.
SOURCE: Izobreter	niya, promyshlennyye o	braztsy, tovarnyy	e znaki, no.	4, 1966, 32-3	33
				*	
ADOMDACTIC AN Auth	pactivity, piezoelectr	en issued describ	ing a method	using heat	80
ABSTRACT: An Auth treatment to incre the electromechan		en issued describ of piezoelectric ent during radia	ing a method ceramic elem l vibrations e heated to 1	the blanks of the temperatures of the temperatures of the temperatures of the temperature of the temperature, and points of the temperature of temperature of the temperature of temperature	of
ABSTRACT: An Authorite electromechan piezoceramic eleme 20-70C above the ized.	nor Certificate has be ease the piezoactivity ical coupling coeffici	en issued describ of piezoelectric ent during radia	ing a method ceramic elem l vibrations e heated to 1	the blanks of the temperatures of the temperatures of the temperatures of the temperature of the temperature, and points of the temperature of temperature of the temperature of temperature	of lar=
ABSTRACT: An Authorite electromechan piezoceramic eleme 20-70C above the ized.	nor Certificate has be ease the piezoactivity loal coupling coeffici ents with electrodes a Curie point, cooled a	en issued describ of piezoelectric ent during radia	ing a method ceramic elem l vibrations e heated to 1	the blanks of the temperatures of the temperatures of the temperatures of the temperature of the temperature, and points of the temperature of temperature of the temperature of temperature	of lar=
ABSTRACT: An Authorite electromechan piezoceramic eleme 20-70C above the ized.	nor Certificate has be ease the piezoactivity loal coupling coeffici ents with electrodes a Curie point, cooled a	en issued describ of piezoelectric ent during radia	ing a method ceramic elem l vibrations e heated to 1	the blanks of the temperatures of the temperatures of the temperatures of the temperature of the temperature, and points of the temperature of temperature of the temperature of temperature	of lar=
ABSTRACT: An Authorite electromechan piezoceramic eleme 20-70C above the ized.	nor Certificate has be ease the piezoactivity loal coupling coeffici ents with electrodes a Curie point, cooled a	en issued describ of piezoelectric ent during radia	ing a method ceramic eleminations to the ceramic eleminations or communication to the ceramic elemination to the ceramic elements eleminated elemination to the ceramic elemination eleminati	the blanks of the temperatures of the temperatures of the temperatures of the temperature of the temperature, and points of the temperature of temperature of the temperature of temperature	of lar=

```
SERG YEW, N.V.; VETROV, I.Ye.; M.02DOV, A.A., inzh., prepodavatel; SAVEL!YEV, S.T., inzh., prepodavatel; SURKIS, M.N., inzh., prepodavatel!; M.T.A., v.D., prepodavatel!; M.T.A., prepodavatel!

Once more about the training of locomotive servicing brigades. Elek. to.!. tiag. b.no.5144 My '61. (MRA 14:7)

1. Racial'nik Kiyoval'ny tekinicheskoy shkoly (for Sergeyov).
2. Fernatitel! naciall'aika Kiyovakoy tekinicheskoy shkoly (for Vetrov). 3. Kiyovakaya tekinicheskaya shkola (for Drozdev, Sevel'yev, Surkis, Dulatov, Dukler, Fel'dsan).

(Railroads - Saployaes)
(Locomotives - Jaintenance and repair)
```

30777. FEL'DMAN, N. G. AND BRAUN, A. D.

Toksichnost' krasiteley i svyazyvanie ikh nativnymi belkami. Doklady Akad. nauk SSSR, Novaya seriya, T. LXVIII, No. 4, 1949, s. 757-60. -- Bibliogr: 8 nazv.

TO THE PERSON OF THE PERSON STATES OF THE LONG THE COLUMN THE

DEMIRCHOGLYAN, G.G.

Valuable work on the histology of the retina ("Ontogenesis and histopathology of the retina; variation of its neural elements in an experiment." N.C. Fel'dman. Reviewed by G.G. Demirchoglian). Isy.AM Arm.SSR.Biol.i sel'khos. nauki. 4 no.12:1185-1188 151.

(MLRA 9:8)

(ESTIMA) (FEL!DWAE, M.G.)

```
FELDMAN, N. (1.

MITHIK, P. Ia.; FEL'IMAN, H.O.

Outstanding histologist M.D. Lavdovskii, 1847-1903. Arkh. anat.gist.

i embr. 3 no.3:86-93 Jl-E '54. (MLRA 7:12)

(BIOGRAPHIE,

Lavdovskii, Mikhail D.)

(HISTOLOUY, history,

in Russian, contributions of M.D. Lavdovskii)
```

FEL'DMAN, Estel'ya Grigor'yauna; ZINOY'YEV, I.A., redaktor; POPRYADUKHIN,

K.A., tekhnicheskiy redaktor

M.D. Lavdovskii, 1847-1902. Moskva, Gos. imd-vo med. lit-ry, 1956.

(MIRA 10:1)

(LAVDOVSKII, MIKHAIL DORMIDOSTOVICH, 1847-1902)

T

Country: VSSR

Category: Human and Animal Physiology. Sense Organs.

Vision.

Abs Jcur: RZhBiol., No 19, 1958, 89349

Author : Fel'dinn W.G.

: Astrakhan Medical Institute

: Trophic Changes of the Eyes Ass ciated with Inst Title

Disorders of Their Sensory Innervation.

Orig Pub: Tr. Astrokionsk. izd. in-ta, 1956, 12, No 2,

120-133.

Abstract: No abstract.

: 1/1 Card

T-137

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128200

Ontogenesis of the visual path in dogs and guines pigs. Probl.fisiol. opt. 12:409-421 *58 1. Laboratoriya negrogistologii Instituta obshchey i eksperimental noy patologii AMN SSSR i Kafedry gistologii Astrkhanskogo meditsinskogo instituta. (DOGS) (QUINEA PIGS) (EYE-INNERVATION)

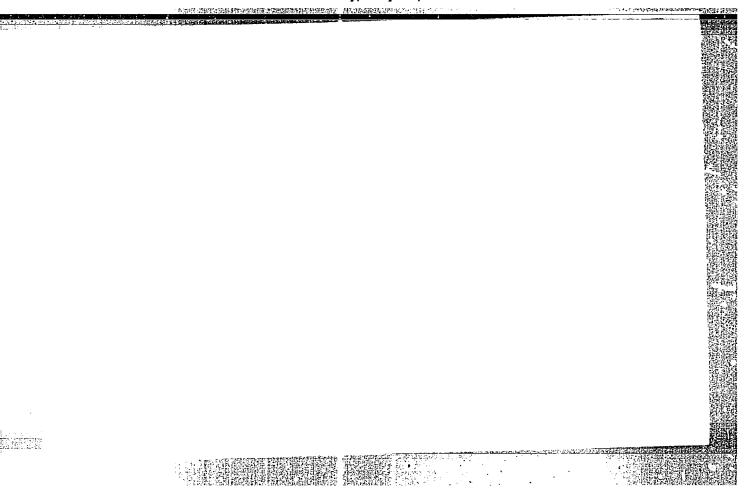
FEL'DMAN, N.G. (Astrakhan', ul. Shaumyana, d. 41, kv. 2); KNORRE, A.G.

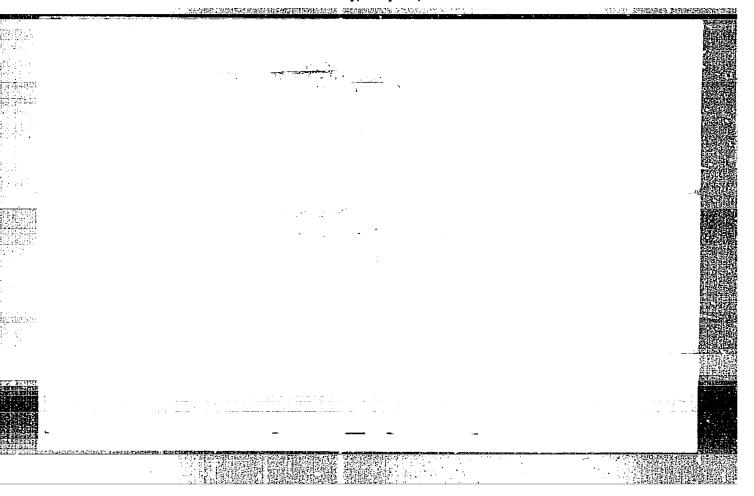
"Morphology of the olfactory organ" by IA.A. Vinnikov, L.K. TITOVA.
Reviewed by N.G. Feld'man, A.G. Knorre. Arkh.anat.gist. i embr. 36
no.1:106-108 Ja '59. (MIRA 12:3)

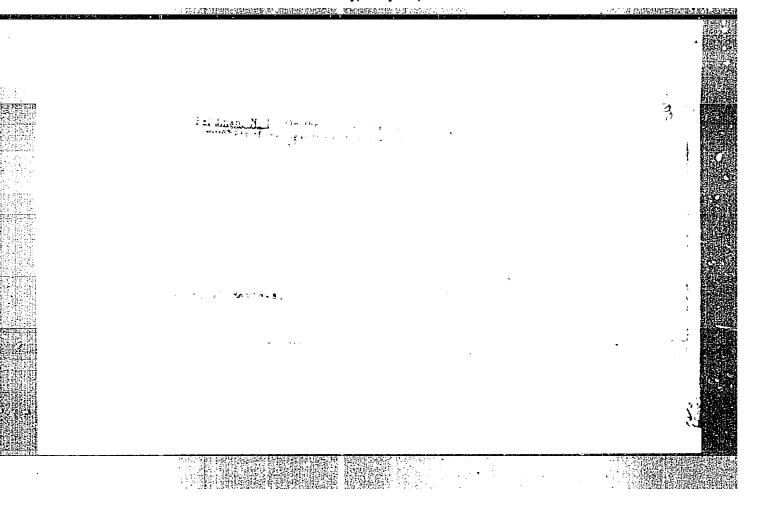
1. Adres Knorre: Leningrad, 100, Litovskaya ul., d. 2 Pediatricheskiy meditainskiy institut, kafedra gistologii i embriologii.
(NOSE) (VINNIKOV, IA.A.) (TITOVA, L.K.)

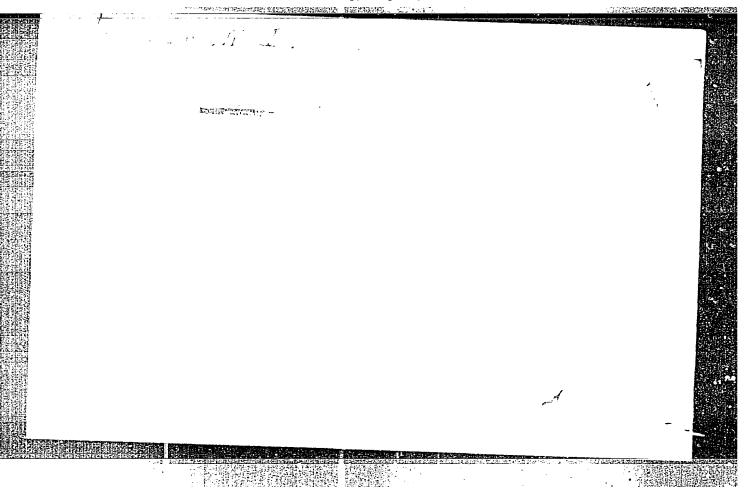
FELIDMAN, N. I. "Arithmetic Properties of Two Periodic Functions." Thesis for degree of Cand. Physiconathematical Sci. Sub 23 Mar 49, Sci Res Inst of Mathematics, Moscow Order of Lenin State U matical Sci. Sub 23 Mar 49, Sci Res Inst of Mathematics, Moscow Order of Lenin State U matical Sci. Sub 23 Mar 49, Sci Res Inst of Mathematics, Moscow Order of Lenin State U matical Sci. Sub 23 Mar 49, Sci Res Inst of Mathematics, Moscow Order of Lenin State U matical Sci. Sub 23 Mar 49, Sci Res Inst of Mathematics, Moscow Order of Lenin State U matical Sci. Sub 23 Mar 49, Sci Res Inst of Mathematics, Moscow Order of Lenin State U matical Sci. Sub 23 Mar 49, Sci Res Inst of Mathematics, Moscow Order of Lenin State U matical Sci. Sub 23 Mar 49, Sci Res Inst of Mathematics, Moscow Order of Lenin State U matical Sci. Sub 23 Mar 49, Sci Res Inst of Mathematics, Moscow Order of Lenin State U matical Sci. Sub 23 Mar 49, Sci Res Inst of Mathematics, Moscow Order of Lenin State U matical Sci. Sub 23 Mar 49, Sci Res Inst of Mathematics, Moscow Order of Lenin State U matical Sci. Sub 23 Mar 49, Sci Res Inst of Mathematics, Moscow Order of Lenin State U matical Sci. Sub 23 Mar 49, Sci Res Inst of Mathematics, Moscow Order of Lenin State U matical Sci. Sub 23 Mar 49, Sci Res Inst of Mathematics, Moscow Order of Lenin State U matical Sci. Sub 23 Mar 49, Sci Res Inst of Mathematics, Moscow Order of Lenin State U matical Sci. Sub 23 Mar 49, Sci Res Inst of Mathematics, Moscow Order of Lenin State U matical Sci. Sub 23 Mar 49, Sci Res Inst of Mathematics, Moscow Order of Lenin State U matical Sci. Sub 23 Mar 49, Sci Res Inst of Mathematics, Moscow Order of Lenin State U matical Sci. Sub 23 Mar 49, Sci Res Inst of Mathematics, Moscow Order of Lenin Sci Res Inst of Mathematics, Moscow Order of Lenin Sci Res Inst of Mathematics, Moscow Order of Lenin Sci Res Inst of Mathematics, Moscow Order of Lenin Sci Res Inst of Mathematics, Moscow Order of Mathematics, Moscow Order of Mathematics, Moscow Order of Mathematics, Moscow Order of Mathemati

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128200









ភិក្សា (ភិក្សា ភិក្សា (ភិក្សា	<u>x. 1.</u>	 	deg n and tegral (en height H, mitted 15	USSR/Mathematics		Establishes, inequalities $ P(z) \ge f($	"Is Ak Mau pp 153-176	Approxima II. Appro With Weier Eiliptic I	USSR/Mathematics	
			and height H, P(z). (entire) rational: H, and f(x,y) is 15 Sep 49, by Aca	1		for ce of the E,n) wh	k 888R, 8er	rimation of Cer strass' P-f ntegrals),		
		•	is poly coeff of certain	Approximation (Contd)		# # # # # # # # # # # # # # # # # # #	Mauk 888R, Ser Matemat" Vol XV, -176	*Approximation of Certain Transcendental Number II. Approximation of Certain Numbers Connected With Weierstrass' P-function (in the Theory of Wiliptic Integrals), "N. I. Fel'dman	- Approximation	1
			polynomial with iff of deg n and ain function. S. M. Winogradov.	•		transcendental number $ z-x \geqslant f(H,n)$ and is algebraic number	No	ntal Con		
	7777±45	e.	h in- d Sub-	Mar/Apr 51	177745	numbers z, n) and mber of	'n	Numbers: mected	Mar/Apr 51	:

	sov/38-22-4-6/6
AUTHOR:	Fel'dman, N.I. On Simultaneous Approximation of the Periods of an Elliptic On Simultaneous Approximation (O sovmestnykh priblizheniyakh On Simultaneous Approximation (O sovmestnykh priblizheniyakh
TITLE:	Punction by Alborator and algebraiches Alma
	periodov elliptions are seriva matematicheskaya, 1900,
PERIODICAL:	periodov ellipticheskoy funktali algori periodov ellipticheskoy funktali algori Izvestiya Akademii nauk SSSR, Seriya matematicheskaya, 1958, Vol 22, Nr 4, pp 563-576 (USSR)
	the invariants
ABSTRACT:	Let ω and ω_1 be the periods and g_2 , g_3 the invariants of the Weierstraß g -functions. If g_2, g_3 are algebraic and \tilde{g}_3 , \tilde{g}_3 are algebraic and \tilde{g}_4 , \tilde{g}_5 then it holds
-	of the Weierstraß & -functions. 12 82.03 and \$1 arbitrary algebraic numbers, then it holds - A n N ln2N
	arbitrary algebraic numbers, vices
	and ξ_1 arbitrary algebraic numbers, $-\Lambda_{0}^{n_0} N \ln^2 N$ $ \omega - \xi + \omega_1 - \xi_1 > e$; here it is
	$ \omega - \xi + \omega_1 - \xi_1 > \bullet$
	n the degree of the extension
	$ \omega - 5 + \omega_1 - 5 $, $ \omega_1 = \omega_1 = \omega_1 $, $ \omega_2 = \omega_1 = \omega_2 $, $ \omega_1 = \omega_2 = \omega_1 = \omega_2 $ and $ \omega_2 = \omega_1 = \omega_2 = \omega_1 = \omega_2 $ and $ \omega_2 = \omega_2 = \omega_1 = \omega_2 $
	origing from the field of the rational management
	$\frac{\ln h}{\ln h} + 1$; n and
	arising from the field of the Land of ξ and ξ_1 ; N ln N = $n_0(\ln n_0 + \frac{\ln h}{n} + \frac{\ln h_1}{n_1} + 1)$; n and
	٠٠٠ الم
Card 1/2	

sov/38-22-4-6/6 On Simultaneous Approximation of the Periods of an Elliptic Function by Algebraic Humbers n_1 are the degrees of ξ , ξ_1 ; h and h_1 the heights of ξ

There are 5 references, 3 of which are Soviet, 1 German, and

1 American.

by M.A. Lavrent'yev, Academician PRESENTED:

July 8, 1957 SUBMITTED:

2. Functions 1. Mathematics

USCOLI:-DC-60314

Card 2/2

CIA-RDP86-00513R0004128200 **APPROVED FOR RELEASE: Monday, July 31, 2000**

SOV/42-14-1-22/27 16(1) On the Transcendence of Numbers of Some Classes (O trans -AUTHOR: tsendentnosti chisel nekotorykh klassov) TITLE: PERIODICAL: Uspekhi matematicheskikh nauk, 1959, Vol 14, Nr 1, pp 237-244(USSR) In 1955 Roth Ref 1 has shown that a is transcendent if $\left| \frac{1}{4} - \frac{p}{q} \right| < \frac{1}{qk}$, k > 2, (p,q) = 1 has infinitely many integral ABSTRACT: solutions p.q. The author shows (theorem 1) that this theorem is also valid for k>1 if q in essential consists of powers of fixed prime numbers. Theorem 2 is contained in Th.Schneider, "Einführung in die transzendenten Zahlen", Göttingen 1957. Theorem 3: Let the coefficients of the series $f(x) = a_m x$ +... (radius of convergence R>0) be rational numbers. Let $\lim_{n\to\infty} \sup \frac{\frac{m_{n+1}}{m}}{n} = c > 1$, $\lim_{n\to\infty} \frac{\ln Q_n}{m} = 0$, where Q_n is the common Card 1/2

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128200

SOV/42-14-1-22/27 On the Transcendence of Numbers of Some Classes denominator of a_0, \dots, a_m . Let p and q be integral and $1-\frac{1}{n}$ $0 < |p| < Rq^{1-\frac{1}{C}}$. Then $f(\frac{p}{q})$ is no algebraic irrational number. There are 5 references, 2 of which are Dutch, 2 German, and 1 English. May 28, 1957

Card 2/2

SUBMITTED:

TROST, Ernst; FEL'DMAN, M.I. [translator]; GKL'FOND, A.O., red.

[Prime numbers] Prostye chisla. Moskva, Gos.izd-vo fizikomatem.lit-ry, 1959. 135 p. Translated from the German.

(MIRA 14:2)

(Humbers, Prime)

S/044/60/000/008/002/035 C111/C222

ルんつ。 AUTHOR:

Fel'dman, N.I.

TITLE:

On the approximation of the number T by algebraic numbers

of fields generated by the roots of unity

PERIODICAL: Referativnyy zhurnal. Matematika, no.8, 1960, 18,

abstract no.8560. Tr. Mosk. geol.-razved. in-ta, 1959, 36,

188-198

TEXT: The author considered the question on the approximation of the number π by algebraic numbers ξ (Izv.AN SSSR, Ser.matem., 1951, 15, no.1, 53-74) and obtained the estimation

 $|\pi-\xi| > \exp\left\{-\gamma v \left(1+v \ln v + \ln H\right) \times \ln(2+v \ln v + \ln H)\right\}, \tag{1}$

where I is an algebraic number of degree V and the height H, while Y is an absolute constant.

In the abstracted article the author gives an estimation more exact than (1) for the special case where ζ are algebraic numbers belonging to the fields of the roots of unity.

Theorem 1: Let n be an arbitrary natural number, $\xi > 0$; let $K=R(e^{2\pi i/n})$ be a field arising from the field of rational numbers by adjoining the

Card 1/2

89**530** s/044/60/000/008/002/035 C111/C222

On the approximation of the...

number $g = e^{2\pi i/n}$; let ξ be an arbitrary number of this field with the degree v and the height H. If then $\ln n > \varepsilon \ln H$ then there exists a constant number Λ_0 depending on ε so that the inequality

$$|\pi - \xi| > \exp(-\Lambda_0 \varphi(n) N \ln N)$$

$$N = \varphi(N) + \frac{\varphi(N) \ln(H+2)}{\nu_1 \ln \ln(H+2)}$$

is satisfied, where $\varphi(n)$ -- Euler function. With the aid of theorem 1 the author obtains an estimation from below for $|\pi x - \cos \pi y|$ for rational $x \neq 0$ and y.

[Abstracter's note: The above text is a full translation of the original Soviet abstract.]

Card 2/2

SOV/20-126-6-16/67 16(1) Fel'dman, N.I. AUTHOR: On the Measure of Transcendency of Number W and of the TITLE: Logarithms of Algebraic Numbers Doklady Akademii nauk SSSR,1959,Vol 126,Nr 6, pp 1214-1215 (USSR) PERIODICAL: The function $\phi(H,n,\xi) = \min_{|a_k| \le H} |a_0 + a_1\xi + \dots + a_n\xi^n|$ ABSTRACT: where a_k is integer rational, $\sum a_k^2 > 0$ is denoted as the measure of transcendency of a number 5.

The author gives the following estimations:

The author gives the following estimations: $\phi(H,n,\ln \omega) > e$ $\phi(H,n,\tilde{n}) > e^{-\gamma_2 n(1+ n \ln n + \ln H) \ln(2+ n \ln n + \ln H)}$ Here γ_1 depends only on the algebraic number \propto and on the Card 1/2

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128200

507/20-126-6-16/67 On the Measure of Transcendency of Number 11 and of the Logarithms of Algebraic Numbers

choice of the Logarithm branch, Y is an absolute constant. H and n are arbitrary and independent from each other. The deduction of the formulas (1) is based on the methods of A.O. Gel'fond _ Ref 9_7. D.D. Mordukhay - Boltovskiy

is mentioned. There are 9 references, 4 of which are Soviet, 3 German,

1 English, and 1 Dutch.

ASSOCIATION: Moskovskiy geologo-razvedochnyy institut imeni S.Ordzhoni-

kidze (Moscow Institute for Geological Reconnaissance imeni

S. Ordzhonikidze)

March 16,1959, by P.S. Aleksandrov, Acadamician PRESENTED:

March 13,1959 SUBMITTED:

Card 2/2

\$/038/60/024/03/03/008

AUTHOR: Fel'dman, N.I.

TITLE: On the Measure of Transcendency of the Number T

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya matematicheskaya, 1960, Vol. 24, No. 3, pp. 357-368

TEXT: The paper contains detailed proofs for the results announced in (Ref. 10) on the estimation from below of the magnitudes $|\mathcal{K} - \xi|$ and $|a_n \mathcal{R}^n + \dots + a_1 \mathcal{R}^n + a_0|$, where ξ is an algebraic number of n-th degree. There are 8 lemmata and 2 theorems. For the proofs the author uses ideas of O.A. Gel'fond (Ref. 7) and an older own paper (Ref. 5). There are 10 references: 4 Soviet, 4 German, 1 Dutch and 1 English

PRESENTED: by I.M. Vinogradov, Academician

SUBMITTED: April 10, 1959

Card 1/1

S/038/60/024/004/003/010XX c 111/ C 333

16.4100 AUTHOR: Felidman, N. I.

TITLE: On the Approximation of the Logarithms of Algebraic Numbers by Algebraic Numbers

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya matematicheskaya, 1960, Vol. 24, No. 4, pp. 475-492

TEXT: Theorem 1: Let $\ln \infty_1, \ldots, \ln \infty_m$ be linearly independent logarithms of the algebraic numbers $\infty_1, \ldots, \infty_m$. There exists a constant $\bigwedge_0 = \bigwedge_0 (\ln \times_1, \ldots, \ln \times_m)$, such that for arbitrary algebraic numbers S_1, \ldots, S_m it holds

" 经排除数

(18) $\left| \ln \alpha_{1} - \overline{S}_{1} \right| + \dots + \left| \ln \alpha_{m} - \overline{S}_{m} \right| > H^{-\bigwedge_{0} (n \ln(n+2))^{1+1/m}}$

where n is the degree of the field $R(\alpha_1,...,\alpha_m;\xi_1,...,\xi_m)$

(19)
$$H = \exp \left\{ n \left(\frac{\ln h_1}{n_1} + \cdots + \frac{\ln h_m}{n_m} \right) \right\}$$
Card 1/3

S/038/60/024/004/003/010XX C 111/ C 333

On the Approximation of the Logarithms of Algebraic Numbers by Algebraic Numbers

and $n_1, h_1; \dots; n_m, h_m$ are the degrees and heights of the numbers

 ξ_1, \dots, ξ_m , where $n < \sqrt{\ln H}$.

Theorem 2: Let $\alpha \neq 0$, 1 be a fixed algebraic number, $\ln \alpha$ a fixed of its value logarithm. There exists a constant $\bigwedge_{1} = \bigwedge_{1} (\ln \alpha)$, such that for every algebraic number ξ of degree n and height H, where $n < \sqrt{\ln H}$, it holds

(48)
$$\int \xi -\ln \alpha / H^{-\Lambda_1 n^2 \ln^2 (n+2)}$$

Theorem 3: Let $\alpha \neq 0$, 1 be a fixed algebraic number, $\ln \alpha$ a fixed value of its logarithm. There exists a constant $\bigwedge_2 = \bigwedge_2 (\ln \alpha)$, such that

APPROVED FOR RELEASE: Monday, July 31, 2000

such that
$$(49) \qquad | P(\ln \alpha)| > H^{-\Lambda_2 n^2 \ln^2(n+2)}$$

Card 2/3

CIA-RDP86-00513R000412820(

s/038/60/024/004/003/010XX C 111/ C 333

On the Approximation of the Logarithms of Algebraic Numbers by Algebraic Numbers

where $P(z) \neq 0$ is a polynomial with integer rational coefficients of degree n and height H, where $n < \sqrt{\ln H}$. (49) is obtained from (48) according to the method of (Ref.3). Theorem 2 follows from theorem 1 (specialization). The inequality (18) is obtained by the same method by which the author determined in (Ref.6) the measure of transcendence of \mathcal{J} . He essentially used the method of A.O. Gel'fond (Ref.7). The proof of theorem 1 is based on 11 lemmata (partially known).

D.D. Mordukhay-Boltovskoy is mentioned in the paper.
There are 9 references: 6 Soviet, 1 German, 1 English and 1 French.
Libstracter's note: (Ref.3) is a paper of the author in Izvestiya
Akademii nauk SSSR, 1951, Vol. 15, 53-74; (Ref.6) is a paper of the
author in Izvestiya Akademii nauk SSSR, 1960, Vol.24, 357-368].

PRESENTED: by J. M. Vinogradov, Academician SUBMITTED: May 29, 1959

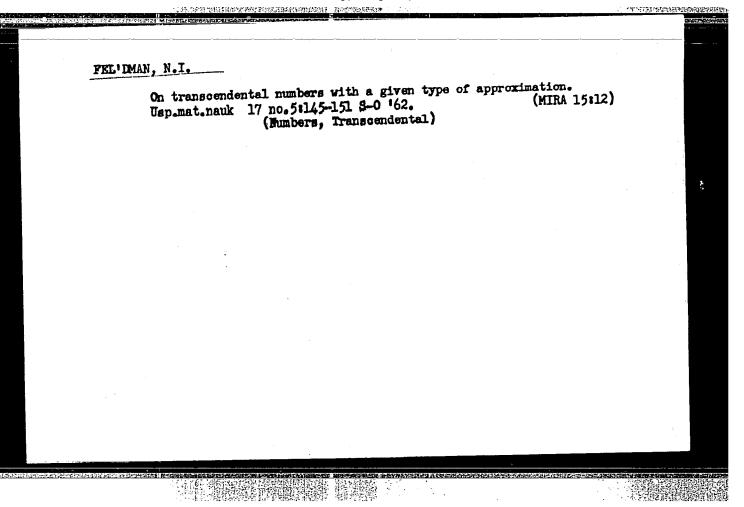
Card 3/3

4

FEL DMAN, N.I.

Measure of transcendence of the number T. Izv.AN SSSR.Ser.mat. 24 no.3:357-368 My-Je 161. (MIRA 14:4)

l. Predstavleno akademikom I.M.Vinogradovvm. (Numbers, Transcendentel)



FEL'DMAN, N.I.

Arithmetic properties of the solutions to a transcendental equation. Vest. Mosk. un. Ser. 1: Mat., mekh. 19 no.1: 13-20 Ja-F'64. (MIRA 17:2)

1. Kafedra matematicheskogo analiza Moskovskogo universiteta.